Practical exam FALL 2021

Subject: PRO192

Duration: 90'

Total: 10 marks

Create a system to manage items in the store like the below descriptions.

<mark>Create a package that is named as your name.</mark> It contains

1. A class named **Item**. It includes: **String name, int price,** and any method if you need
2. A class named **ItemList** stores Items (using ArrayList<Item>), and some methods:
   void loadItems(): to load items from the text file data.txt.

   > Clothes -100
   > Pants -200
   > Watch-300

   void displayItems(): to display all items

   Item findItem(String name): return Item if the item's name equals a given name otherwise return null.
3. A class named **Order**. It includes:
   String customerName
   String phone
   ArrayList<Item> shoppingCart
   and some methods:
   public Order(): assign default values(customer name='khach le', phone='123456') to fields
   public boolean addItemToCart(String itemName, ItemList<Item> list): find a given item's name in the item list, if it exists then you add this item to the shopping cart and remove it from the item list. Return true/false.
   public void displayOrder(): display information of the order

<mark>Create another package named GUI.</mark> It contains:

1. A class named "**Store**" contains the main method. When the program runs, <mark>you call the method loadItems()</mark>, and display a menu:
   1. Create an order
   2. Add an item to the shopping cart
   3. Display the order
      Others, exit the program
      <mark>For example:</mark>
      <mark>The user inputs 1,</mark> the program uses the default constructor to create a new order
      <mark>the user inputs 2:</mark>
      Item list:

      Clothes -100
      Pants -200
      Watch-300

input an item's name, you want to buy: Pants

Continue? Y

Item list:

Clothes -100
Watch -300

input an item's name, you want to buy: Watch

Continue? N

The shopping cart: Pants- 200, Watch-300

The item list: Clothes-100

The user inputs 3:

Your order:

Customer name: Khach le

Phone: 123456

shopping cart:

1   Pants-100

2   Watch-300

Total Quantity: 2

Total money: 400 (VND)

The end